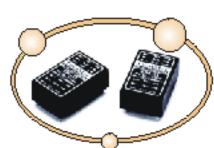


# 5 Watt Wide Input DC to DC Converters



## FEATURES

5-6W Isolated Output 24-Pin DIP Package 2:1 Input Range

Regulated Outputs Continuous Short Circuit Protection High Efficiency Up To 82%

(Optional) Conductive EMI Meet EN55022 Class B

## SPECIFICATIONS

All Specifications are Typical at Nominal Line, Full Load and 25°C Unless Otherwise Noted.

o Input Filter	PI Type
o Voltage Accuracy	<u>±</u> 2% max.
	<b>±</b> 1% max.
o Temperature Coefficient	±0.05%/°C
• Ripple&Noise (20MHz BW)(5	V)100m∨p-p max.
(12/ 1	5∨)1%Vp-p max.
♦ Short Circuit Protection	Continuous
o Line Regulation, Single/Dual	(LL-HL) <b>±</b> 0.5%
o Load Regulation, Single(10	%FL-FL) <b>±</b> 0.5%
Dual (26	0/ELELV - 10/

Dual	(25%FL-FL) <b>±</b> 1%
o I/O Isolation(Standard	Models)500VCD min.
<ul> <li>Switching Frequency</li> </ul>	100 KHz min

Operating Temperature Range...... -25°C To +71°C

 Storage Temperature Range......-40°C To +100°C 

 $(31.8 \times 20.3 \times 10.2 \text{mm})$ 

Case Material:

Standard Models.....Non-Conductive Black Plastic Suffix"M/M1" Models......Black Coated Copper with Non-Conductive Base

## MODEL LIST

Model	Input	Output	Output	%EFF.	CASE
Number	Voltage	Voltage	Current		
E05-X0(B/M/M1/P3/T)	See Note"x"	3.3VDC	1000mA	70min	D
E05-X1(B/M/M1/P3/T)	See Note"x"	5VDC	1000mA	76min	D
E05-X2(B/M/M1/P3/T)	See Note"x"	12VDC	470m A	80min	D
E05-X3(B/M/M1/P3/T)	See Note"x"	15VDC	400m A	80min	D
E05-X4(B/M/M1/P3/T)	See Note"x"	≠ 5VDC	<b>±</b> 500m A	76min	D
E05-X5(B/M/M1/P3/T)	See Note"x"	±12VDC	±230m A	80min	D
E05-X6(B/M/M1/P3/T)	See Note"x"	<b>±</b> 15VDC	±190m A	80min	D

#### Note:

Input Voltage "X":

x=1,Input Voltage = 9~18VDC,Nominal=12VDC

x=2,Input Voltage = 18~36VDC,Nominal=24VDC

x=3,Input Voltage = 36~72VDC,Nominal=48VDC

x=4,Input Voltage = 9~36VDC,Nominal=24 VDC

x=5,Input Voltage = 18~72VDC,Nominal=48VDC

#### Model Number Suffix:

- "B": Optional for EN55022 class B, for Input Range 2:1 only.
- "M": Optional for 500VI/O Isolation with metal case.
- "M1":Optional for 1.5KVI/O Isolation with metal case.
- 4."P 3":Optional for 3KVI/O Isolation with plastic case.
- "T":Optional Remote On/Off for class B version Isolation 3KV & Input Range 2:1Model Only.
- 6.UL Approved Models optional for Input Range 2:1 & Class B Version with Isolation 1.5KV/3KV Models only.

#### Pin Connections Standard Models 500 VDC Suffix "M" For Metal Case Pin# Single Dual Pin# Single Dual Pin# Single Dual ۷i+ Vi+ 11 Vo+ Vo+ 16 N.P. N.P. 2 N.C. Vo-12 Vi-۷i-22 N.C Com. Vi-Vi-3 N.C. Com. 13 23 N.C Vo-9 N.P. N.P. 14 Vo+ Vo+ 24 Vi+ Vi+ 10 Vo-Com 15 Vo-Com

	Pin Connections								
1.5KVDC SUFFIX"M1" 3KVDC Suffix "P3"									
Pin#	Single	Dual	Pin#	Single	Dual	Pin#	Single	Dual	
1	N.P.	N.P.	11	N.C.	Vo-	16	Vo-	Com.	
2	Vi-	Vi-	12	N.P.	N.P.	22	Vi+	Vi+	
3	Vi-	Vi-	13	N.P.	N.P.	23	Vi+	Vi+	
9	N.C.	Com.	14	Vo+	Vo+	24	N.P.	N.P.	
10	N.C.	N.C.	15	N.C.	N.C.				

### CASE D Click to enlarge All Dimensions In Inches (mm)

